Annual Index of *Materials Evaluation*, Volume 58

Authors:

- Abe, Iwao, see Ogawa, Kazuhiro, M.E., Vol. 58, No. 3, March 2000, pp. 476-481.
- Achenbach, J.D., see Kromine, A.K., M.E., Vol. 58, No. 2, February 2000, pp. 173-177.
- Ahmed, S. Reaz and Masumi Saka, Quantitative Nondestructive Testing of Small, Tight Cracks Using Ultrasonic Angle Beam Technique; Technical Paper, M.E., Vol. 58, No. 4, April 2000, pp. 564-574.
- Akhtar, A., D. Kung and D.R. Westrook, Acoustic Emission from FRP Damaged Hoop Wrapped Cylinders; Technical Paper, M.E., Vol. 58, No. 3, March 2000, pp. 462-469.
- Albert, Richard, William Pember, Jeff Garrison and David Reyna, Aircraft Inspection with a Portable, Filmless X-Ray System Using Reverse Geometry; Feature, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.
- Augustyniak, B., see Sablik, M.J., M.E., Vol. 58, No. 5, May 2000, pp. 655-660.
- Bailey, William H., Millennium Liquid Penetrant Testing; Back to Basics, M.E., Vol. 58, No. 8, August 2000, pp. 940-942.
- Bar-Cohen, Yoseph, Emerging NDT Technologies and Challenges at the Beginning of the Millennium, Part 1; Feature, M.E., Vol. 58, No. 1, January 2000, pp. 17-30.
- Bar-Cohen, Yoseph, Emerging NDT Technologies and Challenges at the Beginning of the Millennium, Part 2; Feature, M.E., Vol. 58, No. 2, February 2000, pp. 141-150.
- Bar-Cohen, Yoseph and Shyh-Shiuh Lih, Experimental Enhancements of Leaky Lamb Wave Dispersion Data Acquisition and Implementation Challenges to NDT of Composites; Technical Paper, M.E., Vol. 58, No. 6, June 2000, pp. 801-806.
- Batra, Narendra, NDT Simulation and Visualization on Personal Computers An Introduction; Feature, M.E., Vol. 58, No. 7, July 2000, p. 876.
- Benson, C.J., see Kruzic, R.W., M.E., Vol 58, No. 4, April 2000, pp. 575-577
- Bigelow, T., see Qaddoumi, N., M.E., Vol. 58, No. 2, February 2000, pp. 177-184.
- Bittencourt, Marcelo de S. Queiroz, Carlos Alfredo Lamy, João da Cruz Payão Filho, Auteliano A. dos Santos, Jr. and Don E. Bray, Research and Development in the Application of Ultrasonic Testing in Brazil; Feature, M.E., Vol. 58, No. 4, April 2000, pp. 537-541.
- Blodgett, Mark, Waled Hassan and Peter B. Nagy, Theoretical and Experimental Investigations of the Lateral Resolution and Eddy Current Imaging; Technical Paper, M.E., Vol. 58, No. 5, May 2000, pp. 647-654.
- Bray, A., see Qaddoumi, N., M.E., Vol. 58, No. 2, February 2000, pp. 178-184.
- Bray, Don E., Fixing the Impedance Mismatch in US Technical Education;

- Mehl Honor Lecture, M.E., Vol. 58, No. 3, March 2000, pp. 394-400.
- Bray, Don E., see Bittencourt, Marcelo de S. Queiroz, M.E., Vol. 58, No. 4, April 2000, pp. 537-541.
- Cagle, Larry, see Mackintosh, David, M.E., Vol. 58, No. 10, October 2000, pp. 1213-1215.
- Caron, James N., Karl V. Steiner, Yuqiao Yang and James B. Mehl, Gas Coupled Laser Acoustic Detection for Ultrasound Inspection of Composite Materials; Technical Paper, M.E., Vol. 58, No. 5, May 2000, pp. 667-671.
- Carpenter, David C., Use of Finite Element Method in Simulation and Visualization of Electromagnetic Nondestructive Testing Applications; Technical Paper, M.E., Vol. 58, No. 7, July 2000, pp. 877-881.
- Chen, Jianzhong, Yaowu Shi and Shu Shi, Ringing Noise Estimation and Suppression by High Pass Filtering and Wavelet Packet Transform; Technical Paper, M.E., Vol. 58, No. 8, August 2000, pp. 979-984.
- Chen, Shen-En, Suhas Venkatappa, John Moody, Samer Petro and Hota GangaRao, A Novel Damage Detection Technique Using Scanning Laser Vibrometry and a Strain Energy Distribution Method; Technical Paper, M.E., Vol. 58, No. 12, December 2000, pp. 1389-1394.
- Choi, Yongseok, see Yim, Hyunjune, M.E., Vol. 58, No. 7, July 2000, pp. 889-896.
- Cook, Jeffery F. and Matthew J. Golis, Electric Power Applications of Liquid Penetrant Testing; Feature, M.E., Vol. 58, No. 3, March 2000, pp. 428-436.
- Davidson, Nigel, see Scott, Michael, M.E. Vol. 58, No. 11, November 2000, pp. 1305-1309.
- Dewangan, S.K., see Shyamsunder, M.T., M.E., Vol. 58, No. 1, January 2000, pp. 93-101.
- Dewey, Desmond, The Future of ASNT; Executive Director's Message, M.E., Vol. 58, No. 1, January 2000, pp. 93-101.
- Doggart, Bob, From the President: ASNT's Membership Aspirations, M.E., Vol. 58, No. 2, February 2000, p. 123.
- Doggart, Bob, From the President: The Benefits of ASNT Membership, M.E., Vol. 58, No. 6, June 2000, p. 695.
- Doggart, Bob, From the President: Got Education?, M.E., Vol. 58, No. 5, May 2000, p. 599.
- Doggart, Bob, From the President: Help Lift Us Up Where We Belong, M.E., Vol. 58, No. 11, November 2000, p. 1263.
- Doggart, Bob, From the President: How ASNT Makes and Spends Its Money, M.E., Vol. 58, No. 8, August 2000, pp. 921-922.
- Doggart, Bob, From the President: Probability of Detection, M.E., Vol. 58, No. 4, April 2000, p. 503.
- Doggart, Bob, From the President: Selection of ASNT's Secretary/Treasurer and Directors, M.E., Vol. 58, No. 10, October 2000, p. 1107.
- Doggart, Bob, From the President: Technical Barriers to Trade, M.E., Vol. 58, No. 3, March 2000, p. 347.

- Doggart, Bob, From the President: What Do the Executive Committee and Board of Directors Do?, M.E., Vol. 58, No. 7, July 2000, p. 835.
- Doggart, Bob, From the President: Whose Rules of What? and ASNT's Constitution and Bylaws, M.E., Vol. 58, No. 9, September 2000, pp. 1015-1016.
- Doggart, Bob, From the President: You Will Serve, Won't You?, M.E., Vol. 58, No. 1, January 2000, p. 7.
- Dolan, K.W., see Waters, A.M., M.E., Vol. 58, No. 10, October 2000, pp. 1221-1227.
- dos Santos, Jr., Auteliano A., see Bittencourt, Marcelo de S. Queiroz, M.E., Vol. 58, No. 4, April 2000, pp. 537-541.
- Duke, John C., Jr., see Scott, Michael, M.E. Vol. 58, No. 11, November 2000, pp. 1305-1309.
- Dunckley, Billy L., The Intermediate Fill Factor Equation as Used in Longitudinal Magnetization for Magnetic Particle Testing; Back to Basics, M.E., Vol. 58, No. 12, December 2000, pp. 1361-1370.
- Easter, J., see Qaddoumi, N., M.E., Vol. 58, No. 2, February 2000, pp. 178-184.
- Ehman, R.L., see Smith, J.A., M.E., Vol. 58, No. 12, December 2000, pp. 1395-1401.
- Ericsson, Lars, see Stepinski, Tadeusz, M.E., Vol. 58, No. 1, January 2000, pp. 74-79.
- Erne, O., T. Walz and A. Ettemeyer, Composite Structural Integrity NDT with Automatic Shearography Measurements; NDT Solution, M.E., Vol. 58, No. 12, December 2000, pp. 1378-1382.
- Ettemeyer, A., see Erne, O., M.E., Vol. 58, No. 12, December 2000, pp. 1378-1382
- Evans, J.T., see Hyde, T.R., M.E., Vol. 58, No. 8, August 2000, pp. 985-990.
- Evans, J.T., see Kotsikos, G., M.E., Vol. 58, No. 11, November 2000, pp. 1320-1325.
- Farmer, Donald A., see Roth, Don J., M.E., Vol. 58, No. 4, April 2000, pp. 551-557.
- Filho, João da Cruz Payão, see Bittencourt, Marcelo de S. Queiroz, M.E., Vol. 58, No. 4, April 2000, pp. 537-541.
- Fomitchov, P.A., see Kromine, A.K., M.E., Vol. 58, No. 2, February 2000, pp. 173-177.
- Fortunko, Christopher M., see Lerch, Terence P., M.E., Vol. 58, No. 9, September 2000, pp. 1075-1079.
- Fortunko, Christopher M., see Lerch, Terence P., M.E., Vol. 58, No. 10, October 2000, pp. 1235-1239.
- Fortunko, Christopher M., see Shramm, Raymond E., M.E., Vol. 58, No. 4, April 2000, pp. 558-563.
- Galano, Elizabeth, see Paul I. Nippes, M.E., Vol. 58, No. 3, March 2000, pp. 365-368.
- GangaRao, Hota, see Chen, Shen-En, M.E., Vol. 58, No. 12, December 2000, pp. 1389-1394.
- Garrison, Jeff, see Albert, Richard, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.
- Gibson, A.G., see Kotsikos, G., M.E., Vol. 58, No. 11, November 2000, pp. 1320-1325.
- Goff, Randy, see Sherwin, Amos G., M.E., Vol. 58, No. 6, June 2000, pp. 720-725.
- Golis, Matthew J., see Cook, Jeffery F., Feature, M.E., Vol. 58, No. 3, March 2000, pp. 428-436.
- Green, R.E., Jr., see Waters, A.M., M.E., Vol. 58, No. 10, October 2000, pp. 1221-1227.
- Greenwood, Margaret S., Ali Minachi and R. Bruce Thompson, Effects of Surface Conditions on an Ultrasonic Inservice Inspection; Technical Paper, M.E., Vol. 58, No. 3, March 2000, pp. 439-448.
- Guo, Dongshan and Tribikram Kundu, A New Sensor for Pipe Testing by Lamb Waves; Technical Paper, M.E., Vol. 58, No. 8, August 2000, pp. 991-994.

- Gustafsson, Mats, see Stepinski, Tadeusz, M.E., Vol. 58, No. 1, January 2000, pp. 74-79.
- Hale, J.M., see Kotsikos, G., M.E., Vol. 58, No. 11, November 2000, pp. 1320-1325.
- Handjojo, L., see Qaddoumi, N., M.E., Vol. 58, No. 2, February 2000, pp. 178-184.
- Hashimoto, Hideo, see Ogawa, Kazuhiro, M.E., Vol. 58, No. 3, March 2000, pp. 476-481.
- Hassan, Waled, see Blodgett, Mark, M.E., Vol. 58, No. 5, May 2000, pp. 647-654.
- Horstemeyer, M.F., see Waters, A.M., M.E., Vol. 58, No. 10, October 2000, pp. 1221-1227.
- Howanick, Donald A., see Rens, Kevin L., M.E., Vol. 58, No. 11, November 2000, pp. 1278-1285.
- Howerton, H.K., see Kruzic, R.W., M.E., Vol. 58, No. 4, April 2000, pp. 575-577
- Hyde, T.R., J.T. Evans and B.A. Shaw, Effect of Stress and Heat Treatment on Magnetic Barkhausen Emission in Case Carburized Steels; Technical Paper, M.E., Vol. 58, No. 8, August 2000, pp. 985-990.
- Iddings, Frank, A Basic Artificial Intelligence Application; Back to Basics, M.E., Vol. 58, No. 1, January 2000, pp. 33-34.
- Iddings, Frank, Mentoring; Back to Basics, M.E., Vol. 58, No. 10, October 2000, pp. 1197-1198.
- Ishida, Asako, Yoshihiro Mizutani, Mikio Takemoto and Kanji Ono, Property Evaluation of Thermal Sprayed Metallic Coatings by Acoustic Emission Analysis; Technical Paper, M.E., Vol. 58, No. 3, March 2000, pp. 449-454.
- Jensen, Jack and Don Locke, Lessons Learned While Providing NDT Refresher Training via Computer Based Testing; Baci: to Basics, M.E., Vol. 58, No. 7, July 2000, pp. 854-857.
- Katragadda, Gopichand, David Lewis, John Wallace and Jiatun Si, Swept Frequency Eddy Current Material Profiling Using Radial Basis Function Neural Networks for Inversion; Technical Paper, M.E., Vol. 58, No. 1, January 2000, pp. 70-73.
- Klevin, Stuart and Jason Smith, Update of ASTM Documents for Computed Radiology; Feature, M.E., Vol. 58, No. 11, November 2000, pp. 1291-1296.
- Knott, Albert W., see Rens, Kevin L., M.E., Vol. 58, No. 11, November 2000, pp. 1278-1285.
- Kotsikos, G., J.T. Evans, J.M. Hale and A.G. Gibson, Evaluation of the Effects of Preexposure in Marine Environments of Structural Glass Reinforced Composites by Acoustic Emission Testing; Technical Paper, M.E., Vol. 58, No. 11, November 2000, pp. 1320-1325.
- Krishnaswamy, S., see Kromine, A.K., M.E., Vol. 58, No. 2, February 2000, pp. 173-177.
- Kromine, A.K., P.A. Fomitchov, S. Krishnaswamy and J.D. Achenbach, Laser Ultrasonic Detection of Surface Bending Discontinuities: Scanning Laser Source Technique; Technical Paper, M.E., Vol. 58, No. 2, February 2000, pp. 173-177.
- Kropas-Hughes, Claudia and S. Trent Neet, Basics of Computed Tomography; Back to Basics, M.E., Vol. 58, No. 5, May 2000, pp. 630-633.
- Kruzic, R.W., H.K. Howerton and C.J. Benson, Low Pressure Differential, Detector Probe Type, Helium Leak Testing; Technical Paper, M.E., Vol 58, No. 4, April 2000, pp. 575-577.
- Kühnicke, Elfgard, The Effect of Source Configuration on Refracted Sound Fields; Technical Paper, M.E., Vol. 58, No. 3, March 2000, pp. 470-475.
- Kundu, Tribikram, see Guo, Dongshan, M.E., Vol. 58, No. 8, August 2000, pp. 991-994.
- Kung, D., see Akhtar, A., M.E., Vol. 58, No. 3, March 2000, pp. 462-491.
 Lamy, Carlos Alfredo, see Bittencourt, Marcelo de S. Queiroz, M.E.,
 Vol. 58, No. 4, April 2000, pp. 537-541.

- Lee, Jinyi, see Minchov, Dorian, M.E., Vol. 58, No. 5, May 2000, pp. 661-666.
- Leimenstoll, Robert, Testing of Extrusion Press Tie Bars; Feature, M.E., Vol. 58, No. 10, October 2000, pp. 1216-1217.
- Lerch, Terence P., Martin C. Renken and Christopher M. Fortunko, Ultrasonic Properties of IIW Type Reference Blocks, Part 1: Measurements of Primary Properties; Technical Paper, M.E., Vol. 58, No. 9, September 2000, pp. 1075-1079.
- Lerch, Terence P., Martin C. Renken and Christopher M. Fortunko, Ultrasonic Properties of IIW Type Reference Blocks, Part 2: Variability of Angle Beam Response; Technical Paper, M.E., Vol. 58, No. 10, October 2000, pp. 1235-1239.
- Lewis, W., see Katragadda, Gopichand, M.E., Vol. 58, No. 1, January 2000, pp. 70-73.
- Lih, Shyh-Shiuh, see Bar-Cohen, Yoseph, M.E., Vol. 58, No. 6, June 2000, pp. 801-806.
- Locke, Don, see Jensen, Jack, M.E., Vol. 58, No. 7, July 2000, pp. 854-857.
- Lopez-Sanchez, A.L., see Slotwinski, J.A., M.E., Vol. 58, No. 3, March 2000, pp. 455-461.
- Lu, Taijin and James E. Shigley, Nondestructive Testing for Identifying Natural, Synthetic, Treated and Imitation Gem Materials; NDT Solution, M.E., Vol. 58, No. 10, October 2000, pp. 1204-1208.
- Mace, Daniel E., Even a Monkey Can Do It; Back to Basics, M.E., Vol. 58, No. 2, February 2000, pp. 133-134.
- Mackintosh, David, Larry Cagle and Dave Russell, A New ASTM Standard for Remote Field Testing; Opinion Paper, M.E., Vol. 58, No. 10, October 2000, pp. 1213-1215.
- Marino, Dino, see Ricci, Roy, M.E., Vol. 58, No. 4, April 2000, pp. 531-534.
- Martz, H.E., see Waters, A.M., M.E., Vol. 58, No. 10, October 2000, pp. 1221-1227.
- Mehl, James B., see Caron, James N., M.E., Vol. 58, No. 5, May 2000, pp. 667-671.
- Minachi, Ali, see Greenwood, Margaret S., M.E., Vol. 58, No. 3, March 2000, pp. 439-448.
- Minchov, Dorian, Jinyi Lee and Tetsuo Shoji, Improvement of the Dipole Model of a Surface Crack; Technical Paper, M.E., Vol. 58, No. 5, May 2000, pp. 661-666.
- Mizutani, Yoshihiro, see Ishida, Asako, M.E., Vol. 58, No. 3, March 2000, pp. 449-454.
- Moody, John, see Chen, Shen-En, M.E., Vol. 58, No. 12, December 2000, pp. 1389-1394.
- Morabito, Carlo Francesco, Independent Component Analysis and Extraction Techniques for NDT Data; Technical Paper, M.E., Vol. 58, No. 1, January 2000, pp. 85-92.
- Nagem, Raymond J., Jocelyn M. Seng and James H. Williams, Jr., Residual Life Predictions of Composite Aircraft Structures via Nondestructive Testing, Part 1: Prediction Methodology and Nondestructive Testing; Technical Paper, M.E., Vol. 58, No. 9, September 2000, pp. 1065-1074.
- Nagem, Raymond J., Jocelyn M. Seng and James H. Williams, Jr., Residual Life Predictions of Composite Aircraft Structures via Nondestructive Testing, Part 2: Degradation Modeling and Residual Life Prediction; Technical Paper, M.E., Vol. 58, No. 11, November 2000, pp. 1310-1319.
- Nagy, Peter, see Blodgett, Mark, M.E., Vol. 58, No. 5, May 2000, pp. 647-654.
- Neel, S. Trent, See Kropas-Hughes, Claudia, M.E., Vol. 58, No. 5, May 2000, pp. 630-638.
- Nippes, Paul I. and Elizabeth Galano, The Need for Integrating DC Downcycle Demagnetization into Magnetic Particle Testing; Back to Basics, M.E., Vol. 58, No. 3, March 2000, pp. 365-368.

- Ogawa, Kazuhiro, Tetsuo Soki, Iwao Abe and Hideo Hashimoto, In Situ NDT of Degradation of Thermal Barrier Coatings Using Impedance Spectroscopy; Technical Paper, M.E., Vol. 58, No. 3, March 2000, pp. 476-481.
- Ono, Kanji, see Ishida, Asako, M.E., Vol. 58, No. 3, March 2000, pp. 449-454.
- Papadakis, Emmanuel, Testing for Adhesive Bonding: The Problem, the Solution and the Nationwide Fix; Back to Basics, M.E., Vol. 58, No. 9, September 2000, pp. 1031-1034.
- Papadakis, Emmanuel, Troubleshooting with Failure Modes and Effects Analysis; Back to Basics, M.E., Vol. 58, No. 4, April 2000, pp. 529-530.
- Pember, William, see Albert, Richard, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.
- Petro, Samer, see Chen, Shen-En, M.E., Vol. 58, No. 12, December 2000, pp. 1389-1394.
- Qaddoumi, N., L. Hanjojo, T. Bigelow, J. Easter, A. Bray and R. Zoughi, Microwave Corrosion Detection Using Open Ended Rectangular Waveguide Sensors; Technical Paper, M.E., Vol. 58, No. 2, February 2000, pp. 178-184.
- Raine, G.A., The Changing Face of Testing of Oil and Gas Offshore Installations; Feature, M.E., Vol. 58, No. 8, August 2000, pp. 951-959.
- Rajagopalan, C., see Shyamsunder, M.T., M.E., Vol. 58, No. 1, January 2000, pp. 93-101.
- Raj, Baldev, see Shyamsunder, M.T., M.E., Vol. 58, No. 1, January 2000, pp. 93-101.
- Ramuhalli, P., L. Udpa and S.S. Udpa, An Automatic Signal Classification System for Ultrasonic Weld Inspection Signals; Feature, M.E., Vol. 58, No. 1, January 2000, pp. 65-69.
- Rao, B.P.C., see Shyamsunder, M.T., M.E., Vol. 58, No. 1, January 2000, pp. 93-101.
- Ray, K.K., see Shyamsunder, M.T., M.E., Vol. 58, No. 1, January 2000, pp. 93-101.
- Renken, Martin C., see Lerch, Terence P., M.E., Vol. 58, No. 9, September 2000, pp. 1075-1079.
- Renken, Martin C., see Lerch, Terence P., M.E., Vol. 58, No. 10, October 2000, pp. 1235-1239.
- Rens, Kevin L., Donald A. Howanick and Albert W. Knott, Radiographic Imaging for Assessment of Civil Engineering Concrete Infrastructure; Back to Basics, M.E., Vol. 58, No. 11, November 2000, pp. 1278-1285.
- Reyna, David, see Albert, Richard, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.
- Rhodes, George W., Resonant Ultrasound Spectroscopy for Discontinuity Detection in Both Metallic and Nonmetallic Parts; Feature, M.E., Vol. 58, No. 3, March 2000, pp. 421-427.
- Ricci, Roy and Dino Marino, Monitoring Process Upsets in Production Heat Treating and Other Thermal Process Applications; NDT Solution, M.E., Vol. 58, No. 4, April 2000, pp. 531-534.
- Rose, Joseph L. and Luis E. Soley, Ultrasonic Guided Waves for Anomaly Detection in Aircraft Components; Technical Paper, M.E., Vol. 58, No. 9, September 2000, pp. 1080-1086.
- Roth, Don J. and Donald A. Farmer, Thickness Independent Ultrasonic Imaging Applied to Abrasive Cut Off Wheels; Technical Paper, M.E., Vol. 58, No. 4, April 2000, pp. 551-557.
- Russell, Dave, see Mackintosh, David, M.E., Vol. 58, No. 10, October 2000, pp. 1213-1215.
- Sablik, M.J. and B. Augustyniak, Modeling the Magnetic Field Dependence of Magnetoacoustic Emission; Technical Paper, M.E., Vol. 58, No. 5, May 2000, pp. 655-660.
- Saka, Masumi, see Ahmed, S. Reaz, M.E., Vol. 58, No. 4, April 2000, pp. 564-574.
- Schmerr, Lester W., Jr. and Sung-Jin Song, The Use of Probabilistic Neural Networks for Discontinuity Classification Problems; Technical Paper, M.E., Vol. 58, No. 1, January 2000, pp. 80-84.

Schmerr, Lester W., Jr., A Multi-Gaussian Ultrasonic Beam Model for High Performance Simulations on a Personal Computer; Technical Paper, M.E., Vol. 58, No. 7, July 2000, pp. 882-888.

Schramm, Raymond E. and Christopher M. Fortunko, High Pressure Gas Coupled Ultrasonic Inspection for Discontinuities; Technical Paper,

M.E., Vol. 58, No. 4, April 2000, pp. 558-563.

Scott, Michael, John C. Duke, Jr., Nigel Davidson, Glenn Washer and Richard Weyers, Automated Characterization of Bridge Deck Distress Using Pattern Recognition Analysis of Ground Penetrating Radar Data; Fellowship Award Paper, M.E. Vol. 58, No. 11, November 2000, pp. 1305-1309.

Seng, Jocelyn M., see Nagem, Raymond J., M.E., Vol. 58, No. 9, September 2000, pp. 1065-1074.

Seng, Jocelyn M., see Nagem, Raymond J., M.E., Vol. 58, No. 11, November 2000, pp. 1310-1319.

Sharp, F.L., see Sullivan, S.P., M.E., Vol. 58, No. 5, May 2000, pp. 634-638.

Shaw, B.A., see Hyde, T.R., M.E., Vol. 58, No. 8, August 2000, pp. 985-990.

Shen, W.G., see Zhang, X.R., M.E., Vol. 58, No. 12, December 2000, pp. 1402-1407.

Sherwin, Amos G. and Randy Goff, Heat Assisted Fluorescent Penetrant Testing Revisited; Back to Basics, M.E., Vol. 58, No. 6, June 2000, pp. 720-725.

Shi, Shu, see Chen, Jianzhong, Technical Paper, M.E., Vol. 58, No. 8, August 2000, pp. 979-984.

Shi, Yaowu, see Chen, Jianzhong, Technical Paper, M.E., Vol. 58, No. 8, August 2000, pp. 979-984.

Shigley, James E., see Lu, Taijin, M.E., Vol. 58, No. 10, October 2000, pp. 1204-1208.

Shoji, Tetsuo, see Minchov, Dorian, M.E., Vol. 58, No. 5, May 2000, pp. 661-666.

Shoji, Tetsuo, see Ogawa, Kazuhiro, M.E., Vol. 58, No. 3, March 2000, pp. 476-481.

Shyamsunder, M.T., C. Rajagopalan, Baldev Raj, S.K. Dewangan, B.P.C. Rao and K.K. Ray, Pattern Recognition Approaches for the Detection and Characterization of Discontinuities by Eddy Current Testing; Technical Paper, M.E., Vol. 58, No. 1, January 2000, pp. 93-101.

Si, Jiatun, see Katragadda, Gopichand, M.E., Vol. 58, No. 1, January 2000, pp. 70-73.

Slotwinski, J.A., C.R. Sydnor and A.L. Lopez-Sanchez, Variable Waveform Excitation of Ceramic Element Transducers for ASTM E127 Type Reference Block Calibrations; Technical Paper, M.E., Vol. 58, No. 3, March 2000, pp. 455-461.

Smith, J.A. and R.L. Ehman, Extraction of Propagating Waves in Cine Images from Magnetic Resonance Elastography; Technical Paper, M.E., Vol. 58, No. 12, December 2000, pp. 1395-1401.

Smith, Jason, see Klevin, Stuart, M.E., Vol. 58, No. 11, November 2000, pp. 1291-1296.

Smith, S.P., see Sullivan, S.P., M.E., Vol. 58, No. 5, May 2000, pp. 634-638.

Soley, Luis E., see Rose, Joseph L., M.E., Vol. 58, No. 9, September 2000, pp. 1080-1086.

Song, Sun-Jin, see Schmerr, Lester W., Jr., M.E., Vol. 58, No. 1, January 2000, pp. 80-84.

Spies, Martin, Analytical Methods for Simulation of Ultrasonic Testing of Complex Media on a Personal Computer; Technical Paper, M.E., Vol. 58, No. 7, July 2000, pp. 897-901.

Stanley, Roderic K., Testing of Coiled Oilfield Tubing — An Update; Feature, M.E., Vol. 58, No. 8, August 2000, pp. 970-975.

Steiner, Karl V., see Caron, James N., M.E., Vol. 58, No. 5, May 2000, pp. 667-671. Stepinski, Tadeusz, Lars Ericsson, Bengt Vagnhammar and Mats Gustafsson, Classifying Ultrasonic Resonance Spectra Using a Neural Network; Technical Paper, M.E., Vol. 58, No. 1, January 2000, pp. 74-79.

Sullivan, S.P., S.P. Smith and F.L. Sharp, Simultaneous Absolute and Differential Operation of Eddy Current Bobbin Probes for Heat Exchanger Tube Inspection; NDT Solution, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.

Sydnor, C.R., see Slotwinski, J.A., M.E., Vol. 58, No. 3, March 2000, pp. 455-461.

Takemoto, Mikio, see Ishida, Asako, M.E., Vol. 58, No. 3, March 2000, pp. 449-454.

Thompson, R. Bruce, see Greenwood, Margaret S., M.E., Vol. 58, No. 3, March 2000, pp. 439-448.

Udpa, L., see Ramuhalli, P., M.E., Vol. 58, No. 1, January 2000, pp. 65-69.

Udpa, S.S., see Ramuhalli, P., M.E., Vol. 58, No. 1, January 2000, pp. 65-69.

Vagnhammar, Bengt, see Stepinski, Tadeusz, M.E., Vol. 58, No. 1, January 2000, pp. 74-79.

Venkatappa, Suhas, see Chen, Shen-En, M.E., Vol. 58, No. 12, December 2000, pp. 1389-1394.

Wallace, John, see Katragadda, Gopichand, M.E., Vol. 58, No. 1, January 2000, pp. 70-73.

Walz, T., see Erne, O., M.E., Vol. 58, No. 12, December 2000, pp. 1378-1382.

Wang, X.D., see Zhang, X.R., M.E., Vol. 58, No. 12, December 2000, pp. 1402-1407.

Wang, Yong and Reza Zoughi, Interaction of Surface Cracks in Metals with Open Ended Coaxial Probes at Microwave Frequencies; Fellowship Award Paper, M.E., Vol. 58, No. 10, October 2000, pp. 1228-1234.

Washer, Glenn, see Scott, Michael, M.E. Vol. 58, No. 11, November 2000, pp. 1305-1309.

Waters, A.M., H.E. Martz, K.W. Dolan, M.F. Horstemeyer and R.E. Green, Jr., Three Dimensional Void Analysis of AM60B Magnesium Alloy Tensile Bars Using Computed Tomography Imagery; Fellowship Award Paper, M.E., Vol. 58, No. 10, October 2000, pp. 1221-1227.

Westbrook, D.R., see Akhtar, A., M.E., Vol. 58, No. 3, March 2000, pp. 462-469.

Weyers, Richard, see Scott, Michael, M.E. Vol. 58, No. 11, November 2000, pp. 1305-1309.

Williams, James H., Jr., see Nagem, Raymond J., M.E., Vol. 58, No. 9, September 2000, pp. 1065-1074.

Williams, James H., Jr., see Nagem, Raymond J., M.E., Vol. 58, No. 11, November 2000, pp. 1310-1319.

Yang, Yuqiao, see Caron, James N., M.E., Vol. 58, No. 5, May 2000, pp. 667-671.

Yim, Hyunjune and Yongseok Choi, Simulation of Ultrasonic Waves in Various Types of Elastic Media Using the Mass Spring Lattice Model; Technical Paper, M.E., Vol. 58, No. 7, July 2000, pp. 889-896.

Zhang, X.R., W.G. Shen and X.D. Wang, Displacement Distribution of Surface Acoustic Waves Generated by Spatial Separation of Optically Generated Charge Carriers; Technical Paper, M.E., Vol. 58, No. 12, December 2000, pp. 1402-1407.

Zhong, Wei-Chang, The Effect of Field Orientation Using Magnetic Particle Testing of Detection of Discontinuities; Technical Paper, M.E., Vol. 58, No. 6, June 2000, pp. 807-812.

Zoughi, R., see Qaddoumi, N., M.E., Vol. 58, No. 2, February 2000, pp. 178-184.

Zoughi, Reza, see Wang, Yong, M.E., Vol. 58, No. 10, October 2000, pp. 1228-1234.

Keywords:

- 2000 Redi Reference Guide, M.E., Vol. 58, No. 2, February 2000, pp. 199-325.
- Acoustic Emission Analysis, Property Evaluation of Thermal Sprayed Metallic Coatings by; Technical Paper, Ishida, Asako, Yoshihiro Mizutani, Mikio Takemoto and Kanji Ono, M.E., Vol. 58, No. 3, March 2000, pp. 449-454.
- Acoustic Emission from FRP Damaged Hoop Wrapped Cylinders; Technical Paper, Akhtar, A., D. Kung and D.R. Westrook, M.E., Vol. 58, No. 3, March 2000, pp. 462-469.
- Acoustic Emission Testing, Evaluation of the Effects of Preexposure in Marine Environments of Structural Glass Reinforced Composites by; Technical Paper, Kotsikos, G., J.T. Evans, J.M. Hale and A.G. Gibson, M.E., Vol. 58, No. 11, November 2000, pp. 1320-1325.
- Adhesive Bonding, Testing for: The Problem, the Solution and the Nationwide Fix; Back to Basics, Papadakis, Emmanuel, M.E., Vol. 58, No. 9, September 2000, pp. 1031-1034.
- Aircraft Components, Ultrasonic Guided Waves for Anomaly Detection in; Technical Paper, Rose, Joseph L. and Luis E. Soley, M.E., Vol. 58, No. 9, September 2000, pp. 1080-1086.
- Aircraft Inspection with a Portable, Filmless X-Ray System Using Reverse Geometry; Feature, Albert, Richard, William Pember, Jeff Garrison and David Reyna, M.E., Vol. 58, No. 5, May 2000, pp. 634-638
- Aircraft Structures via Nondestructive Testing, Residual Life Predictions of Composite, Part 1: Prediction Methodology and Nondestructive Testing; Technical Paper, Nagem, Raymond J., Jocelyn M. Seng and James H. Williams, Jr., M.E., Vol. 58, No. 9, September 2000, pp. 1065-1074.
- Aircraft Structures via Nondestructive Testing, Residual Life Predictions of Composite, Part 2: Degradation Modeling and Residual Life Prediction; Technical Paper, Nagem, Raymond J., Jocelyn M. Seng and James H. Williams, Jr., M.E., Vol. 58, No. 11, November 2000, pp. 1310-1319.
- Analytical Methods for Simulation of Ultrasonic Testing of Complex Media on a Personal Computer; Technical Paper, Spies, Martin, M.E., Vol. 58, No. 7, July 2000, pp. 897-901.
- Artificial Intelligence Application, A Basic; Back to Basics, Iddings, Frank, M.E., Vol. 58, No. 1, January 2000, pp. 33-34.
- ASNT and the New Millennium; Executive Director's Message, Dewey, Desmond, M.E., Vol. 58, No. 1, January 2000, p. 8.
- ASNT Contributors; Feature, M.E., Vol. 58, No. 6, June 2000, p. 715.
- ASNT Hosts Another Successful Fall Conference; Wrap Up, M.E., Vol. 58, No. 1, January 2000, p. 49.
- ASNT Makes and Spends Its Money, How, From the President; Doggart, Bob, M.E., Vol. 58, No. 8, August 2000, pp. 921-922.
- ASNT's Membership Aspirations; From the President, Doggart, Bob, M.E., Vol. 58, No. 2, February 2000, p. 123.
- ASNT Membership, The Benefits of: From the President, Doggart, Bob, M.E., Vol. 58, No. 6, June 2000, p. 695.
- ASTM Documents for Computed Radiology, Update of; Feature, Klevin, Stuart and Jason Smith, M.E., Vol. 58, No. 11, November 2000, pp. 1291-1296.
- Automated Characterization of Bridge Deck Distress Using Pattern Recognition Analysis of Ground Penetrating Radar Data; Fellowship Award Paper, Scott, Michael, John C. Duke, Jr., Nigel Davidson, Glenn Washer and Richard Weyers, M.E. Vol. 58, No. 11, November 2000, pp. 1305-1309.
- Automatic Signal Classification System for Ultrasonic Weld Inspection Signals, An; Feature, Ramuhalli, P., L. Udpa and S.S. Udpa, M.E., Vol. 58, No. 1, January 2000, pp. 65-69.
- Awards: 2000 ASNT Award Winners, M.E., Vol. 58, No. 10, October 2000, pp. 1181-1191.

- Back to Basics: A Basic Artificial Intelligence Application, Iddings, Frank, M.E., Vol. 58, No. 1, January 2000, pp. 33-34.
- Back to Basics: Basics of Computed Tomography, Kropas-Hughes, Claudia and S. Trent Neet, M.E., Vol. 58, No. 5, May 2000, pp. 630-633. Back to Basics: Even a Monkey Can Do It, Mace, Daniel E., M.E., Vol.
- 58, No. 2, February 2000, pp. 133-134.

 Back to Basics: Heat Assisted Fluorescent Penetrant Testing Revisited,
 Shewin, Amos G. and Randy Goff, M.E., Vol. 58, No. 6, June 2000,
- pp. 720-725.

 Back to Basics: The Intermediate Fill Factor Equation as Used in Longitu-
- dinal Magnetization for Magnetic Particle Testing, Dunckley, Billy L., M.E., Vol. 58, No. 12, December 2000, pp. 1361-1370.
- Back to Basics: Lessons Learned While Providing NDT Refresher Training via Computer Based Testing, Jensen, Jack and Don Locke, M.E., Vol. 58, No. 7, July 2000, pp. 854-857.
- Back to Basics: Mentoring, Iddings, Frank, M.E., Vol. 58, No. 10, October 2000, pp. 1197-1198.
- Back to Basics: Millennium Liquid Penetrant Testing, M.E., Bailey, William H., Vol. 58, No. 8, August 2000, pp. 940-941.
- Back to Basics: The Need for Integrating DC Downcycle Demagnetization into Magnetic Particle Testing, Nippes, Paul I. and Elizabeth Galano, M.E., Vol. 58, No. 3, March 2000, pp. 365-368.
- Back to Basics: Radiographic Imaging for Assessment of Civil Engineering Concrete Infrastructure, Rens, Kevin L., Donald A. Howanick and Albert W. Knott, M.E., Vol. 58, No. 11, November 2000, pp. 1278-1285.
- Back to Basics: Testing for Adhesive Bonding: The Problem, the Solution and the Nationwide Fix, Papadakis, Emmanuel, M.E., Vol. 58, No. 9, September 2000, pp. 1031-1034.
- Back to Basics: Troubleshooting with Failure Modes and Effects Analysis, Papadakis, Emmanuel, M.E., Vol. 58, No. 4, April 2000, pp. 529-530.
- Basics of Computed Tomography; Back to Basics, Kropas-Hughes, Claudia and S. Trent Neet, M.E., Vol. 58, No. 5, May 2000, pp. 630-633. Benefits of ASNT Membership, The; From the President, Doggart, Bob, M.E., Vol. 58, No. 6, June 2000, p. 695.
- Bishton, Ralph, In Memoriam, M.E., Vol. 58, No. 11, November 2000, p. 1287.
- Boyce, Irving, In Memoriam, M.E., Vol. 58, No. 1, January 2000, p. 55.
 Bridge Deck Distress Using Pattern Recognition Analysis of Ground Penetrating Radar Data, Automated Characterization of; Fellowship Award Paper, Scott, Michael, John C. Duke, Jr., Nigel Davidson, Glenn Washer and Richard Weyers, M.E. Vol. 58, No. 11, November 2000, pp. 1305-1309.
- Changing Face of Testing of Oil and Gas Offshore Installations, The; Feature, Raine, G.A., M.E., Vol. 58, No. 8, August 2000, pp. 951-959.
- Classifying Ultrasonic Resonance Spectra Using a Neural Network; Technical Paper, Stepinski, Tadeusz, Lars Ericsson, Bengt Vagnhammar and Mats Gustafsson, M.E., Vol. 58, No. 1, January 2000, pp. 74-79.
- Coaxial Probes at Microwave Frequencies, Interaction of Surface Cracks in Metals with Open Ended; Fellowship Award Paper, Wang, Yong and Reza Zoughi, M.E., Vol. 58, No. 10, October 2000, pp. 1228-1234.
- Composite Structural Integrity NDT with Automatic Shearography Measurements; NDT Solution, Erne, O., T. Walz and A. Ettemeyer, M.E., Vol. 58, No. 12, December 2000, pp. 1378-1382.
- Computed Radiology, Update of ASTM Documents for; Feature, Klevin, Stuart and Jason Smith, M.E., Vol. 58, No. 11, November 2000, pp. 1291-1296.
- Computed Tomography Imagery, Three Dimensional Void Analysis of AM60B Magnesium Alloy Tensile Bars Using; Fellowship Award Paper, Waters, A.M., H.E. Martz, K.W. Dolan, M.F. Horstemeyer and R.E. Green, Jr., M.E., Vol. 58, No. 10, October 2000, pp. 1221-1227.

- Concrete Infrastructure, Radiographic Imaging for Assessment of Civil Engineering; Back to Basics, Rens, Kevin L., Donald A. Howanick and Albert W. Knott, M.E., Vol. 58, No. 11, November 2000, pp. 1278-1285.
- Eddy Current Bobbin Probes for Heat Exchanger Tube Inspection, Simultaneous Absolute and Differential Operation of; NDT Solution, Sullivan, S.P., S.P. Smith and F.L. Sharp, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.
- Eddy Current Imaging, Theoretical and Experimental Investigations of the Lateral Resolution and; Technical Paper, Blodgett, Mark, Waled Hassan and Peter B. Nagy, M.E., Vol. 58, No. 5, May 2000, pp. 647-654.
- Eddy Current Material Profiling Using Radial Basis Function Neural Networks for Inversion, Swept Frequency; Technical Paper, Katragadda, Gopichand, David Lewis, John Wallace and Jiatun Si, M.E., Vol. 58, No. 1, January 2000, pp. 70-73.
- Eddy Current Testing, Pattern Recognition Approaches for the Detection and Characterization of Discontinuities by; Technical Paper, Shyamsunder, M.T., C. Rajagopalan, Baldev Raj, S.K. Dewangan, B.P.C. Rao and K.K. Ray, M.E., Vol. 58, No. 1, January 2000, pp. 93-101.
- Effect of Field Orientation Using Magnetic Particle Testing of Detection of Discontinuities, The; Technical Paper, Zhong, Wei-Chang, M.E., Vol. 58, No. 6, June 2000, pp. 807-812.
- Effect of Source Configuration on Refracted Sound Fields, The: Technical Paper, Kühnicke, Elfgard, M.E., Vol. 58, No. 3, March 2000, pp. 470-475.
- Effect of Stress and Heat Treatment on Magnetic Barkhausen Emission in Case Carburized Steels; Technical Paper, Hyde, T.R., J.T. Evans and B.A. Shaw, M.E., Vol. 58, No. 8, August 2000, pp. 985-990.
- Effects of Surface Conditions on an Ultrasonic Inservice Inspection; Technical Paper, Greenwood, Margaret S., Ali Minachi and R. Bruce Thompson, M.E., Vol. 58, No. 3, March 2000, pp. 439-448.
- Electric Power Applications of Liquid Penetrant Testing; Feature, Cook, Jeffery F. and Matthew J. Golis, M.E., Vol. 58, No. 3, March 2000, pp. 428-436.
- Electromagnetic Nondestructive Testing Applications, Use of Finite Element Method in Simulation and Visualization of; Technical Paper, Carpenter, David C., M.E., Vol. 58, No. 7, July 2000, pp. 877-881.
- Emerging NDT Technologies and Challenges at the Beginning of the Millennium, Part 1; Feature, Bar-Cohen, Yoseph, M.E., Vol. 58, No. 1, January 2000, pp. 17-30.
- Emerging NDT Technologies and Challenges at the Beginning of the Millennium, Part 2; Feature, Bar-Cohen, Yoseph, M.E., Vol. 58, No. 2, February 2000, pp. 141-150.
- Even a Monkey Can Do It; Back to Basics, Mace, Daniel E., M.E., Vol. 58, No. 2, February 2000, pp. 133-134.
- Executive Director's Message: ASNT and the New Millennium, Dewey, Desmond, M.E., Vol. 58, No. 1, January 2000, p. 8.
- Experimental Enhancements of Leaky Lamb Wave Dispersion Data Acquisition and Implementation Challenges to NDT of Composites; Technical Paper, Bar-Cohen, Yoseph and Shyh-Shiuh Lih, M.E., Vol. 58, No. 6, June 2000, pp. 801-806.
- Extrusion Press Tie Bars, Testing of; Feature, Leimenstoll, Robert, M.E., Vol. 58, No. 10, October 2000, pp. 1216-1217.
- Feature: 1999-2000 President's Award Final Standings, M.E., Vol. 58, No. 10, October 2000, pp. 1203.
- Feature: Aircraft Inspection with a Portable, Filmless X-Ray System Using Reverse Geometry, Albert, Richard, William Pember, Jeff Garrison and David Reyna, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.
- Feature: ASNT Contributors, M.E., Vol. 58, No. 6, June 2000, p. 715.
 Feature: An Automatic Signal Classification System for Ultrasonic Weld Inspection Signals, Ramuhalli, P., L. Udpa and S.S. Udpa, M.E., Vol. 58, No. 1, January 2000, pp. 65-69.

- Feature: The Changing Face of Testing of Oil and Gas Offshore Installations, Raine, G.A., M.E., Vol. 58, No. 8, August 2000, pp. 951-959.
- Feature: Electric Power Applications of Liquid Penetrant Testing, Cook, Jeffery F. and Matthew J. Golis, M.E., Vol. 58, No. 3, March 2000, pp. 428-436.
- Feature: Emerging NDT Technologies and Challenges at the Beginning of the Millennium, Part 1, Bar-Cohen, Yoseph, M.E., Vol. 58, No. 1, January 2000, pp. 17-30.
- Feature: Emerging NDT Technologies and Challenges at the Beginning of the Millennium, Part 2, Bar-Cohen, Yoseph, M.E., Vol. 58, No. 2, February 2000, pp. 141-150.
- Feature: Nomination and Election Task Force Report, M.E., Vol. 58, No. 9, September 2000, pp. 1055-1057.
- Feature: NDT Simulation and Visualization on Personal Computers An Introduction, Batra, Narendra, M.E., Vol. 58, No. 7, July 2000, p. 876.
- Feature: Nuclear Regulatory Commission's Report on Radiography Control Assembly Drive Cable Failures, M.E., Vol. 58, Vol. 6, June 2000, p. 715.
- Feature: Research and Development in the Application of Ultrasonic Testing in Brazil, Bittencourt, Marcelo de S. Queiroz, Carlos Alfredo Lamy, João da Cruz Payão Filho, Auteliano A. Dos Santos, Jr. and Don E. Bray, M.E., Vol. 58, No. 4, April 2000, pp. 537-541.
- Feature: Resonant Ultrasound Spectroscopy for Discontinuity Detection in Both Metallic and Nonmetallic Parts, Rhodes, George W., M.E., Vol. 58, No. 3, March 2000, pp. 421-427.
- Feature: Testing of Coiled Oilfield Tubing An Update, Stanley, Roderic K., M.E., Vol. 58, No. 8, August 2000, pp. 970-975.
- Feature: Testing of Extrusion Press Tie Bars, Leimenstoll, Robert, M.E., Vol. 58, No. 10, October 2000, pp. 1216-1217.
- Feature: Update of ASTM Documents for Computed Radiology, Klevin, Stuart and Jason Smith, M.E., Vol. 58, No. 11, November 2000, pp. 1291-1296.
- Fellowship Award Paper: Interaction of Surface Cracks in Metals with Open Ended Coaxial Probes at Microwave Frequencies, Wang, Yong and Reza Zoughi, M.E., Vol. 58, No. 10, October 2000, pp. 1228-1234.
- Fellowship Award Paper: Three Dimensional Void Analysis of AM60B Magnesium Alloy Tensile Bars Using Computed Tomography Imagery, Waters, A.M., H.E. Martz, K.W. Dolan, M.F. Horstemeyer and R.E. Green, Jr., M.E., Vol. 58, No. 10, October 2000, pp. 1221-1227.
- Fixing the Impedance Mismatch in US Technical Education; Mehl Honor Lecture, Bray, Don E., M.E., Vol. 58, No. 3, March 2000, pp. 394-400.
- From the President: ASNT's Membership Aspirations, Doggart, Bob, M.E., Vol. 58, No. 2, February 2000, p. 123.
- From the President: The Benefits of ASNT Membership, Doggart, Bob, M.E., Vol. 58, No. 6, June 2000, p. 695.
- From the President: Got Education?, Doggart, Bob, M.E., Vol. 58, No. 5, May 2000, p. 599.
- From the President: Help Lift Us Up Where We Belong, Doggart, Bob, M.E., Vol. 58, No. 11, November 2000, p. 1263.
- From the President: How ASNT Makes and Spends Its Money, Doggart, Bob, M.E., Vol. 58, No. 8, August 2000, pp. 921-922.
- From the President: Probability of Detection, Doggart, Bob, M.E., Vol. 58, No. 4, April 2000, p. 503.
- From the President: Selection of ASNT's Secretary/Treasurer and Directors, Doggart, Bob, M.E., Vol. 58, No. 10, October 2000, p. 1107.
- From the President: Technical Barriers to Trade, Doggart, Bob, M.E., Vol. 58, No. 3, March 2000, p. 347.
- From the President: What Do the Executive Committee and Board of Directors Do?, Doggart, Bob, M.E., Vol. 58, No. 7, July 2000, p. 835.
- From the President: Whose Rules of What? and ASNT's Constitution and Bylaws, Doggart, Bob, M.E., Vol. 58, No. 9, September 2000, pp. 1015-1016.

From the President: You Will Serve, Won't You?, Doggart, Bob, M.E., Vol. 58, No. 1, January 2000, p. 7.

Gas Coupled Laser Acoustic Detection for Ultrasound Inspection of Composite Materials; Technical Paper, Caron, James N., Karl V. Steiner, Yuqiao Yang and James B. Mehl, M.E., Vol. 58, No. 5, May 2000, pp. 667-671.

Gem Materials, Nondestructive Testing for Identifying Natural, Synthetic, Treated and Imitation; NDT Solution, Lu, Taijin and James E. Shigley, M.E., Vol. 58, No. 10, October 2000, pp. 1204-1208.

Got Education?; From the President, Doggart, Bob, M.E., Vol. 58, No. 5, May 2000, p. 599.

Ground Penetrating Radar Data, Automated Characterization of Bridge Deck Distress Using Pattern Recognition Analysis of; Fellowship Award Paper, Scott, Michael, John C. Duke, Jr., Nigel Davidson, Glenn Washer and Richard Weyers, M.E. Vol. 58, No. 11, November 2000, pp. 1305-1309.

Heat Assisted Fluorescent Penetrant Testing Revisited; Back to Basics, Shewin, Amos G. and Randy Goff, M.E., Vol. 58, No. 6, June 2000,

pp. 720-725.

Help Lift Us Up Where We Belong; From the President, Doggart, Bob, M.E., Vol. 58, No. 11, November 2000, p. 1263.

High Pressure Gas Coupled Ultrasonic Inspection for Discontinuities; Technical Paper, Schramm, Raymond E. and Christopher M. Fortunko, M.E., Vol. 58, No. 4, April 2000, pp. 558-563.

How ASNT Makes and Spends Its Money, From the President; Doggart, Bob, M.E., Vol. 58, No. 8, August 2000, pp. 921-922

Improvement of the Dipole Model of a Surface Crack; Technical Paper, Minchov, Dorian, Jinyi Lee and Tetsuo Shoji, M.E., Vol. 58, No. 5, May 2000, pp. 661-666.

In Memoriam: Ralph Bishton, M.E., Vol. 58, No. 11, November 2000, p.

In Memoriam: Irving Boyce, M.E., Vol. 58, No. 1, January 2000, p. 55. In Memoriam: Dierk Schnitger, M.E., Vol. 58, No. 1, January 2000, p.

Independent Component Analysis and Extraction Techniques for NDT Data; Technical Paper, Morabito, Carlo Francesco, M.E., Vol. 58, No. 1, January 2000, pp. 85-92.

In Situ NDT of Degradation of Thermal Barrier Coatings Using Impedance Spectroscopy; Technical Paper, Ogawa, Kazuhiro, Tetsuo Soki, Iwao Abe and Hideo Hashimoto, M.E., Vol. 58, No. 3, March 2000, pp. 476-481.

Intermediate Fill Factor Equation as Used in Longitudinal Magnetization for Magnetic Particle Testing, The; Back to Basics, Dunckley, Billy L., M.E., Vol. 58, No. 12, December 2000, pp. 1361-1370.

Laser Acoustic Detection for Ultrasound Inspection of Composite Materials, Gas Coupled; Technical Paper, Caron, James N., Karl V. Steiner, Yuqiao Yang and James B. Mehl, M.E., Vol. 58, No. 5, May 2000, pp. 667-671.

Laser Ultrasonic Detection of Surface Bending Discontinuities: Scanning Laser Source Technique; Technical Paper, Kromine, A.K., P.A. Fomitchov, S. Krishnaswamy and J.D. Achenbach, M.E., Vol. 58, No. 2, February 2000, pp. 173-177.

Leak Testing, Low Pressure Differential, Detector Probe Type, Helium; Technical Paper, Kruzic, R.W., H.K. Howerton and C.J. Benson, M.E., Vol. 58, No. 4, April 2000, pp. 575-577.

Lessons Learned While Providing NDT Refresher Training Via Computer Based Testing; Back to Basics, Jensen, Jack and Don Locke, M.E., Vol. 58, No. 7, July 2000, pp. 854-857.

Liquid Penetrant Testing, Electric Power Applications of; Feature, Cook, Jeffery F. and Matthew J. Golis, M.E., Vol. 58, No. 3, March 2000, pp. 428-436.

Liquid Penetrant Testing, Millennium; Back to Basics, M.E., Bailey, William H., Vol. 58, No. 8, August 2000, pp. 940-941.

Longitudinal Magnetization for Magnetic Particle Testing, The Intermediate Fill Factor Equation as Used in; Back to Basics, Dunckley, Billy L., M.E., Vol. 58, No. 12, December 2000, pp. 1361-1370.

Low Pressure Differential, Detector Probe Type, Helium Leak Testing; Technical Paper, Kruzic, R.W., H.K. Howerton and C.J. Benson,

M.E., Vol 58, No. 4, April 2000, pp. 575-577.

Magnesium Alloy Tensile Bars Using Computed Tomography Imagery, Three Dimensional Void Analysis of AM60B; Fellowship Award Paper, Waters, A.M., H.E. Martz, K.W. Dolan, M.F. Horstemeyer and R.E. Green, Jr., M.E., Vol. 58, No. 10, October 2000, pp. 1221-1227.

Magnetic Field Dependence of Magnetoacoustic Emission, Modeling the; Technical Paper, Sablik, M.J. and B. Augustyniak, M.E., Vol. 58, No.

5, May 2000, pp. 655-660.

Magnetic Particle Testing, The Need for Integrating DC Downcycle Demagnetization into; Back to Basics, Nippes, Paul I. and Elizabeth Galano, M.E., Vol. 58, No. 3, March 2000, pp. 365-368.

Magnetic Particle Testing of Detection of Discontinuities, The Effect of Field Orientation Using; Technical Paper, Zhong, Wei-Chang, M.E., Vol. 58, No. 6, June 2000, pp. 807-812.

Magnetic Resonance Elastography, Extraction of Propagating Waves in Cine Images from; Technical Paper, Smith, J.A. and R.L. Ehman, M.E., Vol. 58, No. 12, December 2000, pp. 1395-1401.

Marine Environments of Structural Glass Reinforced Composites by Acoustic Emission Testing, Evaluation of the Effects of Preexposure in; Technical Paper, Kotsikos, G., J.T. Evans, J.M. Hale and A.G. Gibson, M.E., Vol. 58, No. 11, November 2000, pp. 1320-

Mehl Honor Lecture: Fixing the Impedance Mismatch in US Technical Education, Bray, Don E., M.E., Vol. 58, No. 3, March 2000, pp. 394-

Mentoring; Back to Basics, Iddings, Frank, M.E., Vol. 58, No. 10, October 2000, pp. 1197-1198.

Microwave Corrosion Detection Using Open Ended Rectangular Waveguide Sensors; Technical Paper, Qaddoumi, N., L. Hanjojo, T. Bigelow, J. Easter, A. Bray and R. Zoughi, M.E., Vol. 58, No. 2, February 2000, pp. 178-184.

Microwave Frequencies, Interaction of Surface Cracks in Metals with Open Ended Coaxial Probes at; Fellowship Award Paper, Wang, Yong and Reza Zoughi, M.E., Vol. 58, No. 10, October 2000, pp. 1228-

Millennium Liquid Penetrant Testing; Back to Basics, M.E., Bailey, William H., Vol. 58, No. 8, August 2000, pp. 940-941.

Modeling the Magnetic Field Dependence of Magnetoacoustic Emission; Technical Paper, Sablik, M.J. and B. Augustyniak, M.E., Vol. 58, No. 5, May 2000, pp. 655-660.

Monitoring Process Upsets in Production Heat Treating and Other Thermal Process Applications; NDT Solution, Ricci, Roy and Dino Marino, M.E., Vol. 58, No. 4, April 2000, pp. 531-534.

Multi-Gaussian Ultrasonic Beam Model for High Performance Simulations on a Personal Computer, A; Technical Paper, Schmerr, Lester W., Jr., M.E., Vol. 58, No. 7, July 2000, pp. 882-888.

Need for Integrating DC Downcycle Demagnetization into Magnetic Particle Testing, The; Back to Basics, Nippes, Paul I. and Elizabeth Galano, M.E., Vol. 58, No. 3, March 2000, pp. 365-368.

New Sensor for Pipe Testing by Lamb Waves, A; Technical Paper, Guo, Dongshan and Tribikram Kundu, M.E., Vol. 58, No. 8, August 2000, pp. 991-994.

Nomination and Election Task Force Report; Feature, M.E., Vol. 58, No. 9, September 2000, pp. 1055-1057.

Nondestructive Testing Applications, Use of Finite Element Method in Simulation and Visualization of Electromagnetic; Technical Paper, Carpenter, David C., M.E., Vol. 58, No. 7, July 2000, pp.

NDT of Composites, Experimental Enhancements of Leaky Lamb Wave Dispersion Data Acquisition and Implementation Challenges to; Technical Paper, Bar-Cohen, Yoseph and Shyh-Shiuh Lih, M.E., Vol. 58, No. 6. June 2000, pp. 801-806.

Nondestructive Testing of Small, Tight Cracks Using Ultrasonic Angle Beam Technique, Quantitative; Technical Paper, Ahmed, S. Reaz and Masumi Saka, M.E., Vol. 58, No. 4, April 2000, pp. 564-574.

NDT Simulation and Visualization on Personal Computers — An Introduction; Feature, Batra, Narendra, M.E., Vol. 58, No. 7, July 2000, p. 876.

NDT Solution: Composite Structural Integrity NDT with Automatic Shearography Measurements, Erne, O., T. Walz and A. Ettemeyer, M.E., Vol. 58, No. 12, December 2000, pp. 1378-1382.

NDT Solution: Monitoring Process Upsets in Production Heat Treating and Other Thermal Process Applications, Ricci, Roy and Dino Marino, M.E., Vol. 58, No. 4, April 2000, pp. 531-534.

NDT Solution: Nondestructive Testing for Identifying Natural, Synthetic, Treated and Imitation Gem Materials, Lu, Taijin and James E. Shigley, M.E., Vol. 58, No. 10, October 2000, pp. 1204-1208.

NDT Solution: Simultaneous Absolute and Differential Operation of Eddy Current Bobbin Probes for Heat Exchanger Tube Inspection, Sullivan, S.P., S.P. Smith and F.L. Sharp, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.

NDT Technologies and Challenges at the Beginning of the Millennium, Part 1, Emerging; Feature, Bar-Cohen, Yoseph, M.E., Vol. 58, No. 1, January 2000, pp. 17-30.

NDT Technologies and Challenges at the Beginning of the Millennium, Part 2, Emerging; Feature, Bar-Cohen, Yoseph, M.E., Vol. 58, No. 2, February 2000, pp. 141-150.

Nuclear Regulatory Commission's Report on Radiography Control Assembly Drive Cable Failures; Feature, M.E., Vol. 58, Vol. 6, June 2000, p. 715.

Opinion Paper: A New ASTM Standard for Remote Field Testing; Mackintosh, David, Larry Cagle and Dave Russell, M.E., Vol. 58, No. 10, October 2000, pp. 1213-1215.

Optically Generated Charge Carriers, Displacement Distribution of Surface Acoustic Waves Generated by Spatial Separation of; Technical Paper, Zhang, X.R., W.G. Shen and X.D. Wang, M.E., Vol. 58, No. 12, December 2000, pp. 1402-1407.

Pattern Recognition Approaches for the Detection and Characterization of Discontinuities by Eddy Current Testing; Technical Paper, Shyamsunder, M.T., C. Rajagopalan, Baldev Raj, S.K. Dewangan, B.P.C. Rao and K.K. Ray, M.E., Vol. 58, No. 1, January 2000, pp. 93-101.

Penetrant Testing Revisited, Heat Assisted Fluorescent; Back to Basics, Shewin, Amos G. and Randy Goff, M.E., Vol. 58, No. 6, June 2000, pp. 720-725.

Probability of Detection; From the President, Doggart, Bob, M.E., Vol. 58, No. 4, April 2000, p. 503.

Propagating Waves in Cine Images from Magnetic Resonance Elastography, Extraction of; Technical Paper, Smith, J.A. and R.L. Ehman, M.E., Vol. 58, No. 12, December 2000, pp. 1395-1401.

Property Evaluation of Thermal Sprayed Metallic Coatings by Acoustic Emission Analysis; Technical Paper, Ishida, Asako, Yoshihiro Mizutani, Mikio Takemoto and Kanji Ono, M.E., Vol. 58, No. 3, March 2000, pp. 449-454.

Quantitative Nondestructive Testing of Small, Tight Cracks Using Ultrasonic Angle Beam Technique; Technical Paper, Ahmed, S. Reaz and Masumi Saka, M.E., Vol. 58, No. 4, April 2000, pp. 564-574.

Radiographic Imaging for Assessment of Civil Engineering Concrete Infrastructure; Back to Basics, Rens, Kevin L., Donald A. Howanick and Albert W. Knott, M.E., Vol. 58, No. 11, November 2000, pp. 1278-1285. Radiography Control Assembly Drive Cable Failures, Nuclear Regulatory Commission's Report on; Feature, M.E., Vol. 58, Vol. 6, June 2000, p. 715.

Real Time Radioscopy and Digital Imaging Topical Attendance Exceeds Expectations; Wrap Up, M.E., Vol. 58, No. 1, January 2000, p. 47.

Reference Blocks, Part 1: Measurements of Primary Properties, Ultrasonic Properties of IIW Type; Technical Paper, Lerch, Terence P., Martin C. Renken and Christopher M. Fortunko, M.E., Vol. 58, No. 9, September 2000, pp. 1075-1079.

Reference Blocks, Part 2: Variability of Angle Beam Response, Ultrasonic Properties of IIW Type; Technical Paper, Lerch, Terence P., Martin C. Renken and Christopher M. Fortunko, M.E., Vol. 58, No. 10, October 2000, pp. 1235-1239.

Remote Field Testing, A New ASTM Standard for; Opinion Paper, Mackintosh, David, Larry Cagle and Dave Russell, M.E., Vol. 58, No. 10, October 2000, pp. 1213-1215.

Research and Development in the Application of Ultrasonic Testing in Brazil; Feature, Bittencourt, Marcelo de S. Queiroz, Carlos Alfredo Lamy, João da Cruz Payão Filho, Auteliano A. Dos Santos, Jr. and Don E. Bray, M.E., Vol. 58, No. 4, April 2000, pp. 537-541.

Residual Life Predictions of Composite Aircraft Structures via Nondestructive Testing, Part 1: Prediction Methodology and Nondestructive Testing; Technical Paper, Nagem, Raymond J., Jocelyn M. Seng and James H. Williams, Jr., M.E., Vol. 58, No. 9, September 2000, pp. 1065-1074.

Residual Life Predictions of Composite Aircraft Structures via Nondestructive Testing, Part 2: Degradation Modeling and Residual Life Prediction; Technical Paper, Nagem, Raymond J., Jocelyn M. Seng and James H. Williams, Jr., M.E., Vol. 58, No. 11, November 2000, pp. 1310-1319.

Resonant Ultrasound Spectroscopy for Discontinuity Detection in Both Metallic and Nonmetallic Parts; Feature, Rhodes, George W., M.E., Vol. 58, No. 3, March 2000, pp. 421-427.

Ringing Noise Estimation and Suppression by High Pass Filtering and Wavelet Packet Transform; Technical Paper, Chen, Jianzhong, Yaowu Shi and Shu Shi, M.E., Vol. 58, No. 8, August 2000, pp. 979-984.

Scanning Laser Vibrometry and a Strain Energy Distribution Method, A Novel Damage Detection Technique Using; Technical Paper, Chen, Shen-En, Suhas Venkatappa, John Moody, Samer Petro and Hota GangaRao, M.E., Vol. 58, No. 12, December 2000, pp. 1389-1394.

Schnitger, Dierk, In Memoriam, M.E., Vol. 58, No. 1, January 2000, p. 55.Secretary/Treasurer and Directors, Selection of ASNT's; From the President, Doggart, Bob, M.E., Vol. 58, No. 10, October 2000, p. 1107.

Section Leaders Conference Highlights, 2000; Wrap Up, M.E., Vol. 58, No. 9, September 2000, p. 1059.

Shearography Measurements, Composite Structural Integrity NDT with Automatic; NDT Solution, Erne, O., T. Walz and A. Ettemeyer, M.E., Vol. 58, No. 12, December 2000, pp. 1378-1382.

Simulation of Ultrasonic Waves in Various Types of Elastic Media Using the Mass Spring Lattice Model; Technical Paper, Yim, Hyunjune and Yongseok Choi, M.E., Vol. 58, No. 7, July 2000, pp. 889-896.

Simultaneous Absolute and Differential Operation of Eddy Current Bobbin Probes for Heat Exchanger Tube Inspection; NDT Solution, Sullivan, S.P., S.P. Smith and F.L. Sharp, M.E., Vol. 58, No. 5, May 2000, pp. 634-638. Spring Conference Program a Success; Wrap-up, M.E., Vol 58, No. 6,

June 2000, pp. 789-791.

Strain Energy Distribution Method, A Novel Damage Detection Technique Using Scanning Laser Vibrometry and a; Technical Paper, Chen, Shen-En, Suhas Venkatappa, John Moody, Samer Petro and Hota GangaRao, M.E., Vol. 58, No. 12, December 2000, pp. 1389-1394.

Structural Glass Reinforced Composites by Acoustic Emission Testing, Evaluation of the Effects of Preexposure in Marine Environments of; Technical Paper, Kotsikos, G., J.T. Evans, J.M. Hale and A.G. Gibson, M.E., Vol. 58, No. 11, November 2000, pp. 1320-1325. Surface Acoustic Waves Generated by Spatial Separation of Optically Generated Charge Carriers, Displacement Distribution of; Technical Paper, Zhang, X.R., W.G. Shen and X.D. Wang, M.E., Vol. 58, No. 12, December 2000, pp. 1402-1407.

Swept Frequency Eddy Current Material Profiling Using Radial Basis Function Neural Networks for Inversion; Technical Paper, Katragadda, Gopichand, David Lewis, John Wallace and Jiatun Si, M.E.,

Vol. 58, No. 1, January 2000, pp. 70-73.

Technical Barriers to Trade; From the President, Doggart, Bob, M.E., Vol. 58, No. 3, March 2000, p. 347.

Technical Paper: Acoustic Emission from FRP Damaged Hoop Wrapped Cylinders, Akhtar, A., D. Kung and D.R. Westrook, M.E., Vol. 58, No. 3, March 2000, pp. 462-469.

Technical Paper: Analytical Methods for Simulation of Ultrasonic Testing of Complex Media on a Personal Computer, Spies, Martin, M.E., Vol.

58, No. 7, July 2000, pp. 897-901.

Technical Paper: Classifying Ultrasonic Resonance Spectra Using a Neural Network, Stepinski, Tadeusz, Lars Ericsson, Bengt Vagnhammar and Mats Gustafsson, M.E., Vol. 58, No. 1, January 2000, pp. 74-79.

Technical Paper: Displacement Distribution of Surface Acoustic Waves Generated by Spatial Separation of Optically Generated Charge Carriers, Zhang, X.R., W.G. Shen and X.D. Wang, M.E., Vol. 58, No. 12, December 2000, pp. 1402-1407.

Technical Paper: The Effect of Field Orientation Using Magnetic Particle Testing of Detection of Discontinuities, Zhong, Wei-Chang, M.E.,

Vol. 58, No. 6, June 2000, pp. 807-812.

Technical Paper: The Effect of Source Configuration on Refracted Sound Fields, Kühnicke, Elfgard, M.E., Vol. 58, No. 3, March 2000, pp. 470-475.

Technical Paper: Effect of Stress and Heat Treatment on Magnetic Barkhausen Emission in Case Carburized Steels, Hyde, T.R., J.T. Evans and B.A. Shaw, M.E., Vol. 58, No. 8, August 2000, pp. 985-990.

Technical Paper: Effects of Surface Conditions on an Ultrasonic Inservice Inspection, Greenwood, Margaret S., Ali Minachi and R. Bruce Thompson, M.E., Vol. 58, No. 3, March 2000, pp. 439-448.

Technical Paper: Evaluation of the Effects of Preexposure in Marine Environments of Structural Glass Reinforced Composites by Acoustic Emission Testing, Kotsikos, G., j.T. Evans, J.M. Hale and A.G. Gibson, M.E., Vol. 58, No. 11, November 2000, pp. 1320-1325.

Technical Paper: Experimental Enhancements of Leaky Lamb Wave Dispersion Data Acquisition and Implementation Challenges to NDT of Composites, Bar-Cohen, Yoseph and Shyh-Shiuh Lih, M.E., Vol. 58, No. 6, June 2000, pp. 801-806.

Technical Paper: Extraction of Propagating Waves in Cine Images from Magnetic Resonance Elastography, Smith, J.A. and R.L. Ehman, M.E., Vol. 58, No. 12, December 2000, pp. 1395-1401.

Technical Paper: Gas Coupled Laser Acoustic Detection for Ultrasound Inspection of Composite Materials, Caron, James N., Karl V. Steiner, Yuqiao Yang and James B. Mehl, M.E., Vol. 58, No. 5, May 2000, pp. 667-671.

Technical Paper: High Pressure Gas Coupled Ultrasonic Inspection for Discontinuities, Schramm, Raymond E. and Christopher M. For-

tunko, M.E., Vol. 58, No. 4, April 2000, pp. 558-563.

Technical Paper: Improvement of the Dipole Model of a Surface Crack, Minchov, Dorian, Jinyi Lee and Tetsuo Shoji, M.E., Vol. 58, No. 5, May 2000, pp. 661-666.

Technical Paper: Independent Component Analysis and Extraction Techniques for NDT Data, Morabito, Carlo Francesco, M.E., Vol. 58, No.

1, January 2000, pp. 80-84.

Technical Paper: In Situ NDT of Degradation of Thermal Barrier Coatings Using Impedance Spectroscopy, Ogawa, Kazuhiro, Tetsuo Soki, Iwao Abe and Hideo Hashimoto, M.E., Vol. 58, No. 3, March 2000, pp. 476-481.

Technical Paper: Laser Ultrasonic Detection of Surface Bending Discontinuities: Scanning Laser Source Technique, Kromine, A.K., P.A. Fomitchov, S. Krishnaswamy and J.D. Achenbach, M.E., Vol. 58, No. 2, February 2000, pp. 173-177.

Technical Paper: Low Pressure Differential, Detector Probe Type, Helium Leak Testing, Kruzic, R.W., H.K. Howerton and C.J. Benson, M.E.,

Vol 58, No. 4, April 2000, pp. 575-577.

Technical Paper: Microwave Corrosion Detection Using Open Ended Rectangular Waveguide Sensors, Qaddoumi, N., L. Hanjojo, T. Biçelow, J. Easter, A. Bray and R. Zoughi, M.E., Vol. 58, No. 2, February 2000, pp. 178-184.

Technical Paper: Modeling the Magnetic Field Dependence of Magnetoncoustic Emission, Sablik, M.J. and B. Augustyniak, M.E., Vol. 58,

No. 5, May 2000, pp. 655-660.

Technical Paper: A Multi-Gaussian Ultrasonic Beam Model for High Performance Simulations on a Personal Computer, Schmerr, Lester W., Jr., M.E., Vol. 58, No. 7, July 2000, pp. 882-888.

Technical Paper: A New Sensor for Pipe Inspection by Lamb Waves, Guo, Dongshan and Tribikram Kundu, M.E., Vol. 58, No. 8, August

2000, pp. 991-994.

Technical Paper: A Novel Damage Detection Technique Using Scanning Laser Vibrometry and a Strain Energy Distribution Method, Chen, Shen-En, Suhas Venkatappa, John Moody, Samer Petro and Hota GangaRao, M.E., Vol. 58, No. 12, December 2000, pp. 1389-1394.

Technical Paper: Pattern Recognition Approaches for the Detection and Characterization of Discontinuities by Eddy Current Testing, Shyamsunder, M.T., C. Rajagopalan, Baldev Raj, S.K. Dewangan, B.P.C. Rao and K.K. Ray, M.E., Vol. 58, No. 1, January 2000, pp. 93-101.

Technical Paper: Property Evaluation of Thermal Sprayed Metallic Coatings by Acoustic Emission Analysis, Ishida, Asako, Yoshihiro Mizutani, Mikio Takemoto and Kanji Ono, M.E., Vol. 58, No. 3, March 2000, pp. 449-454.

Technical Paper: Quantitative Nondestructive Testing of Small, Tight Cracks Using Ultrasonic Angle Beam Technique, Ahmed, S. Reaz and Masumi Saka, M.E., Vol. 58, No. 4, April 2000, pp. 564-574.

Technical Paper: Residual Life Predictions of Composite Aircraft Structures via Nondestructive Testing, Part 1: Prediction Methodology and Nondestructive Testing, Nagem, Raymond J., Jocelyn M. Seng and James H. Williams, Jr., M.E., Vol. 58, No. 9, September 2000, pp. 1065-1074.

Technical Paper: Residual Life Predictions of Composite Aircraft Structures via Nondestructive Testing, Part 2: Degradation Modeling and Residual Life Prediction, Nagem, Raymond J., Jocelyn M. Seng and James H. Williams, Jr., M.E., Vol. 58, No. 11, November 2000, pp. 1310-1319.

Technical Paper: Ringing Noise Estimation and Suppression by High Pass Filtering and Wavelet Packet Transform, M.E., Chen, Jianzhong, Yaowu Shi and Shu Shi, Vol. 58, No. 8, August 2000, pp. 979-984.

Technical Paper: Simulation of Ultrasonic Waves in Various Types of Elastic Media Using the Mass Spring Lattice Model, Yim, Hyunjune and Yongseok Choi, M.E., Vol. 58, No. 7, July 2000, pp. 889-896.

Technical Paper: Swept Frequency Eddy Current Material Profiling Using Radial Basis Function Neural Networks for Inversion, Katragadda, Gopichand, David Lewis, John Wallace and Jiatun Si, M.E., Vol. 58, No. 1, January 2000, pp. 70-73.

Technical Paper: Theoretical and Experimental Investigations of the Lateral Resolution and Eddy Current Imaging, Blodgett, Mark, Waled Hassan and Peter B. Nagy, M.E., Vol. 58, No. 5, May 2000, pp. 647-654.

Technical Paper: Thickness Independent Ultrasonic Imaging Applied to Abrasive Cut Off Wheels, Roth, Don J. and Donald A. Farmer, M.E., Vol. 58, No. 4, April 2000, pp. 551-557.

Technical Paper: Ultrasonic Guided Waves for Anomaly Detection in Aircraft Components, Rose, Joseph L. and Luis E. Soley, M.E., Vol. 58, No. 9, September 2000, pp. 1080-1086.

Technical Paper: Ultrasonic Properties of IIW Type Reference Blocks, Part 1: Measurements of Primary Properties, Lerch, Terence P., Martin C. Renken and Christopher M. Fortunko, M.E., Vol. 58, No. 9, September 2000, pp. 1075-1079.

Technical Paper: Ultrasonic Properties of IIW Type Reference Blocks, Part 2: Variability of Angle Beam Response, Lerch, Terence P., Martin C. Renken and Christopher M. Fortunko, , M.E., Vol. 58, No. 10, Oc-

tober 2000, pp. 1235-1239.

Technical Paper: Use of Finite Element Method in Simulation and Visualization of Electromagnetic Nondestructive Testing Applications, Carpenter, David C., M.E., Vol. 58, No. 7, July 2000, pp. 877-881.

Technical Paper: The Use of Probabilistic Neural Networks for Discontinuity Classification Problems, Schmerr, Lester W., Jr. and Sung-Jin

Song, M.E., Vol. 58, No. 1, January 2000, pp. 80-84.

Technical Paper: Variable Waveform Excitation of Ceramic Element Transducers for ASTM E127 Type Reference Block Calibrations, Slotwinski, J.A., C.R. Sydnor, A.L. Lopez-Sanchez, M.E., Vol. 58, No. 3, March 2000, pp. 455-461.

Testing of Coiled Oilfield Tubing - An Update; Feature, Stanley, Roderic K., M.E., Vol. 58, No. 8, August 2000, pp. 970-975.

Theoretical and Experimental Investigations of the Lateral Resolution and Eddy Current Imaging; Technical Paper, Blodgett, Mark, Waled Hassan and Peter B. Nagy, M.E., Vol. 58, No. 5, May 2000, pp. 647-654.

Thickness Independent Ultrasonic Imaging Applied to Abrasive Cut Off Wheels; Technical Paper, Roth, Don J. and Donald A. Farmer, M.E., Vol. 58, No. 4, April 2000, pp. 551-557.

Troubleshooting with Failure Modes and Effects Analysis; Back to Basics, Papadakis, Emmanuel, M.E., Vol. 58, No. 4, April 2000, pp. 529-530.

Ultrasonic Angle Beam Technique, Quantitative Nondestructive Testing of Small, Tight Cracks Using; Technical Paper, Ahmed, S. Reaz and Masumi Saka, M.E., Vol. 58, No. 4, April 2000, pp. 564-574.

Ultrasonic Beam Model for High Performance Simulations on a Personal Computer, A Multi-Gaussian; Technical Paper, Schmerr, Lester W., Jr., M.E., Vol. 58, No. 7, July 2000, pp. 882-888.

Ultrasonic Guided Waves for Anomaly Detection in Aircraft Components; Technical Paper, Rose, Joseph L. and Luis E. Soley, M.E., Vol. 58, No. 9, September 2000, pp. 1080-1086.

Ultrasonic Imaging Applied to Abrasive Cut Off Wheels, Thickness Independent; Technical Paper, Roth, Don J. and Donald A. Farmer, M.E., Vol. 58, No. 4, April 2000, pp. 551-557.

Ultrasonic Inservice Inspection, Effects of Surface Conditions on an; Technical Paper, Greenwood, Margaret S., Ali Minachi and R. Bruce Thompson, M.E., Vol. 58, No. 3, March 2000, pp. 439-448.

Ultrasonic Inspection for Discontinuities, High Pressure Gas Coupled; Technical Paper, Schramm, Raymond E. and Christopher M. Fortunko, M.E., Vol. 58, No. 4, April 2000, pp. 558-563.

Ultrasonic Properties of IIW Type Reference Blocks, Part 1: Measurements of Primary Properties; Technical Paper, Lerch, Terence P., Martin C. Renken and Christopher M. Fortunko, M.E., Vol. 58, No. 9, September 2000, pp. 1075-1079.

Ultrasonic Properties of IIW Type Reference Blocks, Part 2: Variability of Angle Beam Response; Technical Paper, Lerch, Terence P., Martin C. Renken and Christopher M. Fortunko, M.E., Vol. 58, No. 10, October 2000, pp. 1235-1239.

Ultrasonic Resonance Spectra Using a Neural Network, Classifying; Technical Paper, Stepinski, Tadeusz, Lars Ericsson, Bengt Vagnhammar and Mats Gustafsson, M.E., Vol. 58, No. 1, January 2000, pp. 74-

Ultrasonic Testing in Brazil, Research and Development in the Application of; Feature, Bittencourt, Marcelo de S. Queiroz, Carlos Alfredo Lamy, João da Cruz Payão Filho, Auteliano A. Dos Santos, Jr. and Don E. Bray, M.E., Vol. 58, No. 4, April 2000, pp. 537-541.

Ultrasonic Testing of Complex Media on a Personal Computer, Analytical Methods for Simulation of; Technical Paper, Spies, Martin, M.E., Vol.

58, No. 7, July 2000, pp. 897-901.

Ultrasonic Waves in Various Types of Elastic Media Using the Mass Spring Lattice Model, Simulation of; Technical Paper, Yim, Hyunjune and Yongseok Choi, M.E., Vol. 58, No. 7, July 2000, pp. 889-896.

Ultrasonic Weld Inspection Signals, An Automatic Signal Classification System for; Feature, Ramuhalli, P., L. Udpa and S.S. Udpa, M.E.,

Vol. 58, No. 1, January 2000, pp. 65-69.

Ultrasound Inspection of Composite Materials, Gas Coupled Laser Acoustic Detection for; Technical Paper, Caron, James N., Karl V. Steiner, Yuqiao Yang and James B. Mehl, M.E., Vol. 58, No. 5, May 2000, pp. 667-671.

Use of Finite Element Method in Simulation and Visualization of Electromagnetic Nondestructive Testing Applications; Technical Paper, Carpenter, David C., M.E., Vol. 58, No. 7, July 2000, pp. 877-881.

Use of Probabilistic Neural Networks for Discontinuity Classification Problems, The; Technical Paper, Schmerr, Lester W., Jr. and Sung-Jin Song, M.E., Vol. 58, No. 1, January 2000, pp. 80-84.

Variable Waveform Excitation of Ceramic Element Transducers for ASTM E127 Type Reference Block Calibrations; Technical Paper, Slotwinski, J.A., C.R. Sydnor, A.L. Lopez-Sanchez, M.E., Vol. 58, No. 3, March 2000, pp. 455-461.

What Do the Executive Committee and Board of Directors Do?; From the President Doggart, Bob, M.E., Vol. 58, No. 7, July 2000, p. 835.

Wrap Up: 2000 Section Leaders Conference Highlights, M.E., Vol. 58, No. 9, September 2000, p. 1059.

Wrap Up: ASNT Hosts Another Successful Fall Conference, M.E., Vol. 58, No. 1, January 2000, p. 49.

Wrap Up: Real Time Radioscopy and Digital Imaging Topical Attendance Exceeds Expectations, M.E., Vol. 58, No. 1, January 2000, p. 47.

Wrap Up: Spring Conference Program a Success, M.E., Vol 58, No. 6, June 2000, pp. 789-791.

X-Ray System Using Reverse Geometry, Aircraft Inspection with a Portable, Filmless; Feature, Albert, Richard, William Pember, Jeff Garrison and David Reyna, M.E., Vol. 58, No. 5, May 2000, pp. 634-638.

You Will Serve, Won't You?; From the President, Doggart, Bob, M.E., Vol. 58, No. 1, January 2000, p. 7.

